

Assignment 1

1. A system with fewer equations than unknowns is an *underdetermined system*. A system with more equations than unknowns is an *overdetermined system*.
 - (a) Explain why an underdetermined system that has a solution must have infinitely many solutions.
 - (b) Can an overdetermined system have no solutions? one solution? infinitely many solutions? Explain why and give examples!
2. Write the vectors u, v, w, z as linear combinations of a and b .

